

Common Remotely Operated Weapon Station–Lightning



The objective of the Common Remotely Operated Weapon Stations (CROWS)—Lightning is to field three lightweight remote weapon stations to Operation Iraqi Freedom (OIF) for operational assessment and requirement development. The corollary objective is to execute a follow-on program to type classify and field a lightweight remote weapon station that is capable of mounting current weapons (M240 and M249) with a growth path to the XM307 Advanced Crew Served Weapon (ACSW).

Performance Characteristics

- Lightweight for application to HMWV and heavy trucks
- < 200 lbs above the roof, including weapons and ammo
- Capable of identifying and defeating targets out to the effective range of the weapon while on the move during day and night
 - Mounts to M240 and M249 weapons, with planned growth to ACSW
 - Day and night cameras
- Traverse - continuous 360 degrees
- Provide a 360-degree azimuth with depression limits of -15 to +45 degrees (objective: -20 to +60 degrees)
- Slew rate greater than 60 degrees/second
- **Major components:** slip rings, fiber optic gyros, user interface, cables, vehicle integration kit, and remote chargers
- Safe system that includes fire and traverse inhibits, as required
- Leverages existing field support and spares